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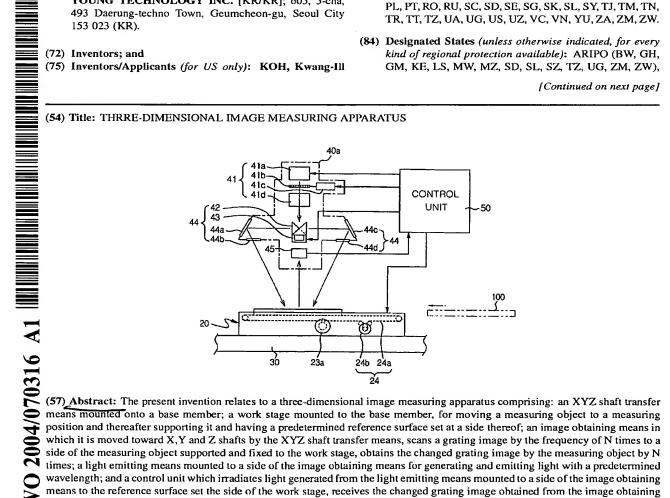
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- (71) Applicant (for all designated States except US): KOH YOUNG TECHNOLOGY INC. [KR/KR]; 605, 5-cha, 493 Daerung-techno Town, Geumcheon-gu, Seoul City 153 023 (KR).

[KR/KR]; 201, Sunang Villa, 211-1, Gueui-dong, Kangjin-gu, Seoul City 143-200 (KR). SEONG, Eun-Hyoung [KR/KR]; 149-48, Yonhi-dong, Seodaemun-gu, Seoul City 120-110 (KR). JEON, Moon-Young [KR/KR]; 303-ho, 10/2-7, Pungduckchun-ri, Suji-eup, Yongin City, Gyeonggi-do 449-846 (KR).

- (74) Agent: WOORIN PATENT FIRM; 2nd floor, Shinwon Bldg., 823-14, Yeoksam-dong, Kangnam-gu, Seoul City 135-080 (KR).
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wavelength; and a control unit which irradiates light generated from the light emitting means mounted to a side of the image obtaining means to the reference surface set the side of the work stage, receives the changed grating image obtained from the image obtaining means, thereby producing the three-dimensional image.